HUMAN CREMATORY AIR GENERAL PERMIT REGISTRATION FORM

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

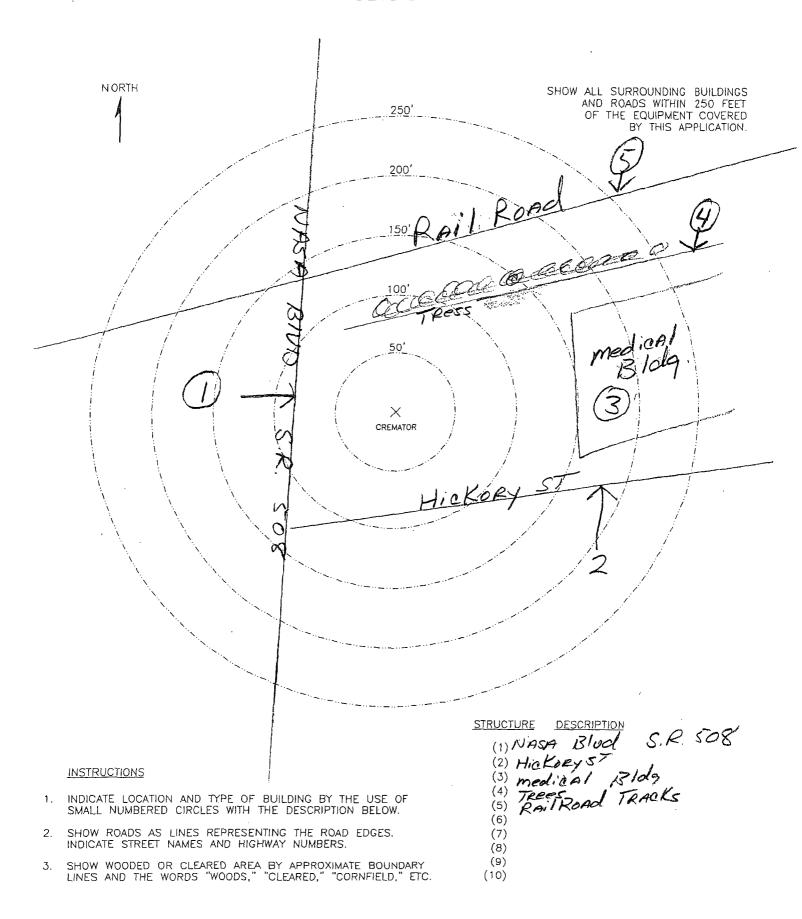
62-4.050, F.A.C. (\$100 as of the effective date of this form)
Registration Type 009015-004-7
Check one:
INITIAL REGISTRATION - Notification of intent to: Construct and operate a proposed new facility. Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).
RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to: Continue operating the facility after expiration of the current term of air general permit use. Continue operating the facility after a change of ownership. Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.
Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only
If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box. All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):
No air operation permits currently exist for this facility.
General Facility Information
Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases,
operates, controls, or supervises the facility.) South Brevard Funeral Home, Inc.
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)
Space Coast Crematory
Facility Location (Provide the physical location of the facility, not necessarily the mailing address.) Street Address: 1001 South Hickory Street City: Melbourne County: Brebard Zip Code: 32901
Facility Start-Up Date (Estimated start-up date of proposed new facility.) (N/A for existing facility) 4/10/2013

DEP Form No. 62-210.920(2)(c) Effective: January 10, 2007

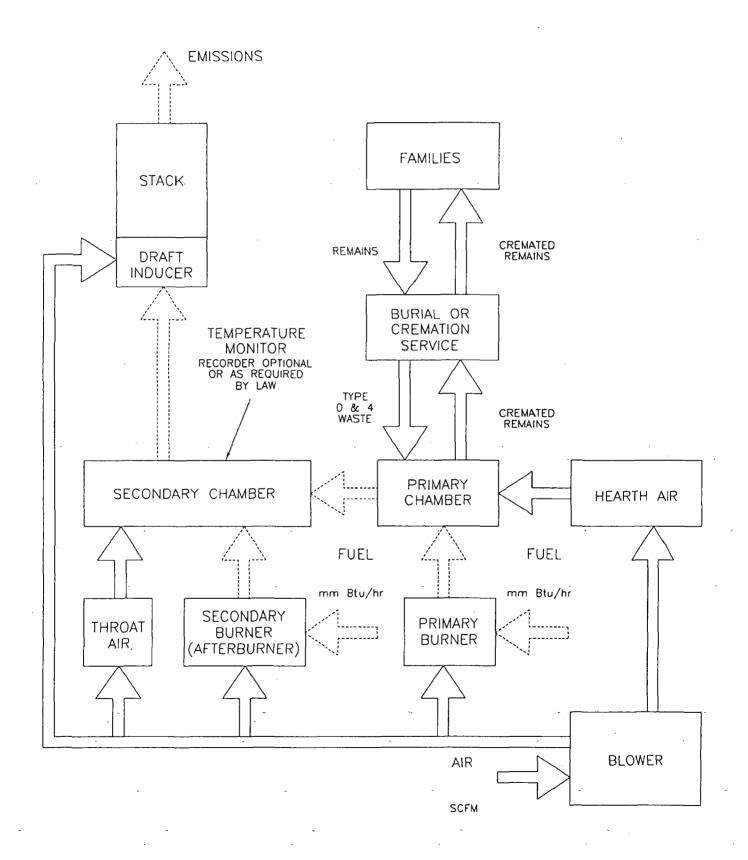
Owner/Authorized Representative			
Name and Position Title (Person who, by signing this form	n below, certifies	that the facility is e	ligible to use this
air general permit.)	,	•	
Print Name and Title: Michael W. Ammen, Pre	cidont		
Michael w. Ammen, Pre	Sident		
Owner/Authorized Representative Mailing Address			
Organization/Firm: South Brevard Funeral	Home, Inc.		
Street Address:			
City: 1001 South Hickory StreetCounty:	Brevard	Zip Code:	32901
		-	
Owner/Authorized Representative Telephone Numbers			
Telephone: 321-724-2222	Fax:	321-727-8454	
Cell phone (optional):		021 727 010	
<u> </u>			
Facility Contact (If different from Owner/Authorized	Representative)		
Name and Position Title (Plant manager or person to be co		g day-to-day operati	ons at the facility.)
Print Name and Title:		8 13 11	,
Facility Contact Mailing Address			
Organization/Firm:			
Street Address:			
City: County:		Zip Code:	
		•	
Facility Contact Telephone Numbers			
Telephone:	Fax:		
Cell phone (optional):			
(-p)			
Owner/Authorized Representative Statement			
This statement must be signed and dated by the person nar	ned above as ow	ner or authorized rep	resentative
I, the undersigned, am the owner or authorized repres	entative of the o	vner or operator of	the facility
addressed in this Air General Permit Registration For			
belief formed after reasonable inquiry, that the facility			
use of this air general permit and that the statements i			
and complete. Further, I agree to operate and mainta			
as to comply with all applicable standards for control			
the State of Florida and rules of the Department of En			
State of 1 to that and rules of the Department of En	ommoniai i i o	iconon una rerisioni	
I will promptly notify the Department of any changes t	to the information	n contained in this re	poistration
form.	o and injoinditor	i comunica in into re	Smartin
<i>A</i>			
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	Design Calculations
	If this is an initial registration for a proposed new human crematory unit, provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees F.
l	Manufacturer's' design calculations attached.
	Registration is not for proposed new human crematory unit(s).
•	Description of Facility
	Below, or as an attachment to this form, provide a description of all crematory operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.
	See attached process flow diagram
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PLOT PLAN



PROCESS FLOW DIAGRAM CREMATOR



SPECIFICATIONS- Model Super Power-Pak

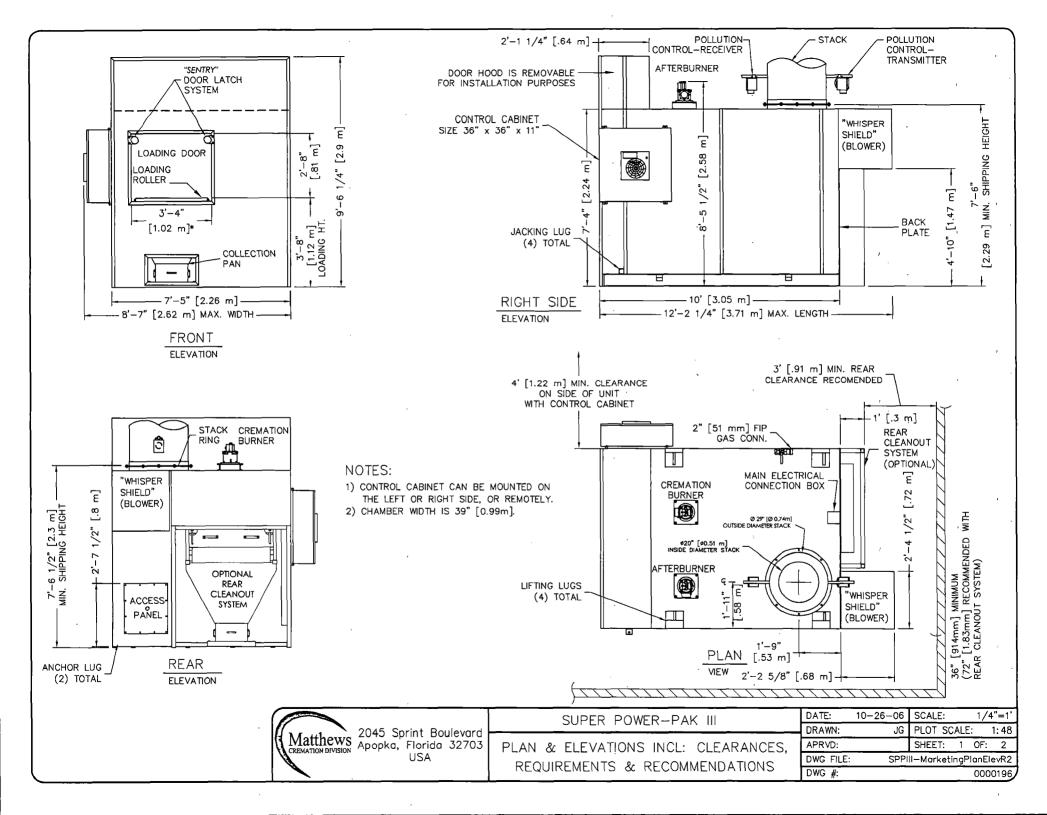
1.	Equipment TypeA. Model NoB. Underwriters Laboratories Listing and File No	IE43-SPP
2.	Dimensions A. Footprint B. Maximum Length C. Maximum Width D. Maximum Height E. Chamber Loading Opening.	12' – 2" (3.7 m) 8' -7" (2.62 m) 9' - 6¾" (2.91 m)
3.	Weight	32,000 lbs. (14,500 kg)
4.	Utility/Air Requirements A. Gross Gas Input, Natural or LP Gas	2,750,000 BTU/hr. (2,640,000 kJ/h) if operating temperature is greater then 1,600° F 11 inches (280 mm) water column or greater 11 inches (280 mm) water column or greater 230 volt, 3Ø or 1Ø, 50/60 hz (other available)
5.	Incineration Capacity	200 lbs./hr. (91 kg/h)
6.	Typical Loading Capacity of Waste Types	750 lbs. (340 kg/h)
7.	Construction and Safety Standards	Incineration Institute of America, Underwriters Laboratories, Canadian Standards Association
	Steel Structure Construction A. Frame	3/8" (10 mm) plate 3/16" (5 mm) plate 12 gauge (3 mm) plate
9.	Stack Construction A. Inner Wall B. Outer Wall	
10.	Draft Nozzle Construction	Schedule 40 type 316 s.s., welded connections
11.	Main Chamber Door Construction A. Steel Shell B. Outer Refractory C. Inner Refractory	1" (25 mm) insulating block

SPECIFICATIONS- Model Super Power-Pak

12.	Primary Chamber Wall Construction A. Outer Casing Wall B. Inner Frame/Air Compartment C. Inner Casing Wall D. Outer Refractory Wall E. Inner Refractory Wall	2" (51 mm) air compartment 12 gauge (3 mm) sheet 5" (127 mm) insulating block (minimum)
13.	Secondary Chamber Wall Construction A. Outer Casing Wall B. Inner Frame/Air Compartment C. Inner Casing Wall D. Outer Refractory Wall E. Inner Refractory Wall	2" (51 mm) air compartment 12 gauge (3 mm) sheet 6" (150 mm) insulating block
14.	Refractory Temperature Ratings A. Standard Firebrick B. Insulating Firebrick C. Castable Refractory (Hearth) D. Castable Refractory E. Insulating Block F. Bonding Mortar	2,600° F. (1430° C) 2,550° F. (1370° C) 2,550° F. (1370° C) 1,900° F. (1040° C)
15.	Chamber Volumes (not including external flues, stacks or chimneys) A. Primary Chamber B. Secondary Chamber	71 cubic feet (2.0 m ³) 104 cubic feet (2.9 m ³)
16.	 Emission Control Features A. Secondary Chamber with Afterburner B. Opacity Monitor and Controller with Visual and Audible Alarms C. Auxiliary Air Control System D. Microprocessor Temperature Control System 	Included Included
17.	Operating Temperatures A. Primary Chamber B. Secondary Chamber	
18.	Secondary Chamber Retention Time	> 2 second
	Ash Removal	Door functions as a heat shield. Sweep out beneath rear door into hopper that fills collection pan.
20.	Safety Interlocks A. High Gas Pressure B. Low Gas Pressure C. Blower Air Pressure D. Door Position E. Opacity	Optional Included Included

SPECIFICATIONS- Model Super Power-Pak

F. Motor Starter Function G. Chamber Temperature H. Motor Overload I. Flame Quality J. Burner Safe Start	Included Included Included
21.Burner Description	The nozzle mix burners used on this cremation equipment are industrial quality and designed for incinerator use.
22.Ultraviolet Flame Detection	Ultraviolet flame detection has proven to be the most reliable means of flame safety. The system is completely sealed in a quartz capsule to eliminate problems, caused by moisture and dust created in the cremation process, which effect flame rod detectors.
22 Operating Danel Indicating Lights	
23.Operating Panel Indicating Lights A. Safe Run	Included
B. Door Closed.	
C. Pollution Alarm	
D. Afterburner On (Secondary Burner)	
E. Cremation Burner On	
F. Temperature Control	
G. Afterburner (Secondary Burner) Reset	
H. Cremation Burner Reset	
l. Hearth Air	
J. Throat Air Off	
24. Automatic Timer Functions	
A. Master Cycle	Included
B. Afterburner (Secondary Burner)	Included
C. Cremation Burner	
D. Low Fire Cremation Burner	
E. Hearth Air	Included
F. Throat Air	
G. Pollution Monitoring	
H. Afterburner (Secondary Burner) Prepurge	Included
I. Cremation Burner Prepurge	
J. Cool Down	Included
25. Exterior Finish	O and the Control of the Control of the control of
A. Primer	<u> </u>
B. Finish	2 coats textured finish
26.Start-Up and Training	Startup of cremation equipment and training of operators to properly operate and maintain the equipment is performed on-site under actual operating conditions. Included is a comprehensive owner's manual, with details on the equipment, its components and proper operation.



CREMATOR CLEARANCES

CREMATOR REQUIREMENTS

STACK INSTALLATION INSTRUCTIONS

RECOMMENDED MINIMUM TOP: (2) 2 FEET [610 mm] 6 INCHES [152 mm] CABINET SIDE: 4 FEET [1.22 m] 4 FEET [1.22 m] [610 mm] 6 INCHES [152 mm] OTHER SIDE: 2 FEET 9 FEET [2.74 m] 8 FEET [2.44 m] FRONT: 32 INCHES [812 mm] REAR: 3 FEET [0.91 m] 6 INCHES [152 mm] 6 INCHES [152 mm] STACK:

- 1. FOR CLEARANCES OTHER THAN THOSE SHOWN, OR FOR SPECIAL REQUIREMENTS, CONSULT YOUR MCD REP.
- (2.) FROM HIGHEST POINT ON UNIT.
- 3. CONTROL CABINET MOUNTS ON UNIT'S LEFT OR RIGHT SIDES, OR REMOTELY, (SEE PLAN VIEW, SHEET 1).
- 4. REAR OF UNIT REFERS TO THE "BACK PLATE", RATHER THAN THE BACK OF THE "WHISPER SHIELD". (SEE PLAN VIEW,

FUEL: A PRESSURE REGULATOR ADJUSTABLE TO 11" [279 mm] W.C. FOR NATURAL GAS, OR 11" [279 mm] W.C. FOR LP GAS.

CAPACITY: RANGES FROM 2.0 TO 3.0 MILLION BTU/HR [2.1 TO 3.1 MILLION KILOJOULES/HR] DEPENDING UPON AMOUNT OF BURNERS.

ELECTRICAL: 230 VOLT. 3ø. (40A BREAKER) AND 115v (10A BREAKER), OR 230 VOLT. 1ø, (70A BREAKER) AND 115v (10A BREAKER) 50/60 HERTZ

AIR: LOUVER NEAR THE REAR OF THE UNIT CAPABLE OF PASSING 2,500 CU FT/MIN [70.8 CU M/MIN] OF FREE AIR (36" X 36") [914 mm X 914 mm].

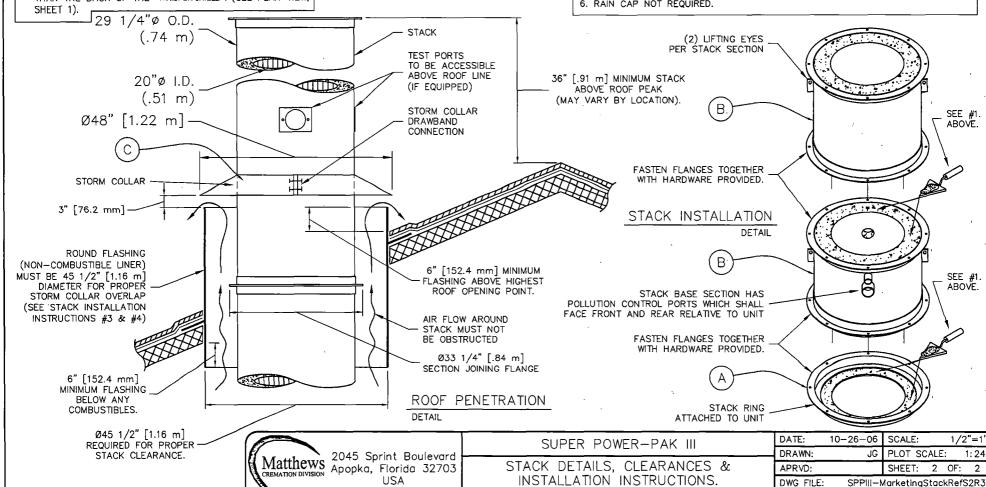
- 1. APPLY A 1/2" THICK MORTAR JOINT TO EXPOSED REFRACTORY SURFACE IN STACK RING. LOWER THE BASE STACK SECTION (B) ONTO STACK RING (A) AND FASTEN WITH HARDWARE PROVIDED (NO MORE THAN (2) STACK SECTIONS SHALL BÉ LIFTED TOGETHER). REPEAT PROCESS FOR REMAINING STACK SECTIONS. IF SECTIONS OF VARYING LENGTHS ARE SUPPLIED, ASSEMBLE AS TO AVOID FLANCES & LIFTING EYES INTERFERING WITH RAIN COLLAR LOCATION.
- 2. INSTALL STORM COLLAR ON STACK, 3" [72 mm] ABOVE NON-COMBUSTIBLE LINER (FLASHING), ALLOWING FOR PROPER VENTILATION (SEE DETAIL).
- 3. APPLY A 1/4" [6 mm] BEAD OF HIGH-TEMPERATURE SILICON SEALANT (PROVIDED BY MCD) TO THE JOINT BETWEEN THE STORM COLLAR (C) AND THE STACK (B)
- 4. STORM COLLAR IS FURNISHED BY MCD. THE NON-COMBUSTIBLE LINER (FLASHING) TO BE PROVIDED BY THE OTHERS.
- 5. IF FIFTY PERCENT OF THE STACK LENGTH IS ABOVE THE ROOF, GUY WIRES MAY BE REQUIRED. CONSULT WITH YOUR MCD REP.

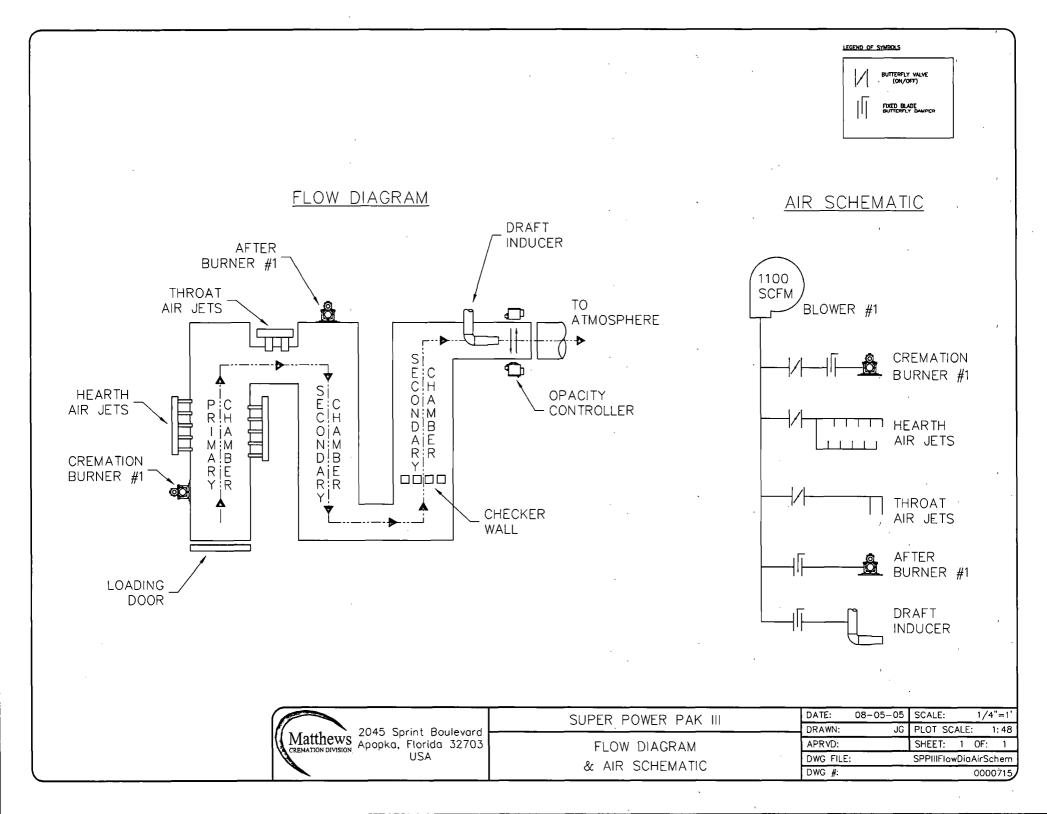
DWG #:

0000196

6. RAIN CAP NOT REQUIRED.

REFRACTORY STACK DETAIL





Calculation Of Emissions

Potential to Emit

Matthews Cremation Division (MCD)
(formerly Industrial Equipment and Engineering Company (IEE))
Crematory Incinerator Model IE43-SPP

Total Incenerator Burn								
Flue gas flow rate =			12	Hours/Day X		ek X	52	Weeks/Year
(100	% Excess A	Air)		= 3744	Hours/Year			
Total Emission Rate	e = Inciner	ator Burn	Rate X E	mission Facto	r			
Sulfer Dioxide (SO ₂)								
200	lb/hr X	2.5	lb/ton X	1 ton		=	0.250	lb/hr
				2000 lbs	-	=	0.468	TPY
. 0.25	lb/hr X	4.54E+05	mg/lb X	1, ppmv		=	21.80	ppmv
1175	dscfm X		min/hr X	0.0283 m ³ /f ³ X	2.61 mg/m ³			
Nitrogen Oxide (NOx	- as Nitroge	n <u>Dioxide)</u>						
200	lb/hr X	3	. İb/ton X	1 ton		=	0.3	lb/hr
	10/11/	<u>~</u> _	· ID/CONTA	2000 lbs	-	=	0.5616	-
ОЗ	lb/hr X	4.54E+05	ma/lb Y	1 ppmv		_	36.70	nnmv
	dscfm X		min/hr X	0.028 m ³ /f ³ X	1.88 mg/m ³		30.70	ppiiiv
Hydrocarbons (TOC/V	OC - metha	ne)						
200		_	11 /1 3/	4.4			0.2	N- <i>N</i>
200	lb/hr X	3	lb/ton X	1 ton 2000 lbs	-	=	0.5616	lb/hr TPY
				2000 100			0.5010	
	lb/hr X	4.54E+05		1 ppmv 0.0283 m ³ /f ³ X	0.65 mg/m ³	=	105.02	ppmv
11/5	dscfm X	60	min/hr X	0.0283 m /r X	0.65 mg/m			
Lead (Pb) (6.62E-05 %	of body we	eight)					
200	lb/hr X	0.0000662	lb Pb	·			0.0001	
		100	lb			=	0.0002	TPY
Particulates (PM & PM	<u>(مدا</u>	Actual Levels	s lower as s	shown by test resu	ılts)			
200	lb/hr X	7	lb/ton X	1 ton		=	0.7	lb/hr
- , 				2000 lbs	.,	=	1.3104	TPY
0.7	lb/hr X	7.00E+03	qr/lb X			=	0.07	gr/dscf
	dscfm X		min/hr					•
Carbon Monoxide (CO)		•		•			
200	lb/hr X	10	lb/ton X	1 ton		=	1	lb/hr
	20/11 <u>1</u>		.5, 6511 /	2000 lbs	•	=	1.872	-
1	lb/hr X	4.54E+05	mg/lb X	1 ppmv		=	201.75	ppmv
	dscfm X		min/hr X	0.028 m ³ /f ³ X	1.14 mg/m ³			

Notes

^{1.} Incinerator Emissions based on EPA emissions from Table 2.1-12 of AP-42 (5th Edition)

^{2.} All conversion factors from AP-42 Appendix A.

CREMATOR MASS BALANCE Matthews Cremation SPPIII

THESE CALCULATIONS HAVE BEEN PREPARED TO EVALUATE THE COMBUSTION PROCESS IN THIS UNIT.

THE INCINERATOR INSTITUTE OF AMERICA HAS PUBLISHED THE FOLLOWING SPECIFICATIONS COVERING AVERAGE WASTES.

WASTE-TYPE	TÝPÉ Ó · · · · · · · · · · · · · · · · · ·	· · · · TYPE 4
BTU PER POUND	8500	1000
POUND ASH PER POUND WASTE	0.05	0.05
POUND MOISTURE PER POUND WASTE	0.1	0.85
POUND COMBUSTIBLES PER POUND WASTE	0.85	0.1
HOURLY CONSUMPTION OF WASTE (LBS)	10	190
1. MASS OF PRODUCTS OF COMBUSTION FROM CONTAINER	,	
A. COMBUSTION AIR		
8500 BTU/LB x	0.075 LB/CF OF AIR =	6.38 LB/LB BURNED
100 BTU/CF OF AIR*		,
B. COMBUSTIBLES AND WATER VAPOR	FROM CHART ABOVE =	0.95 LB/LB BURNED
C. TOTAL FLUE PRODUCT MASS PER LB BURNED	=	7.33 LB/LB BURNED
2. MASS OF PRODUCTS OF COMBUSTION FROM BODY		
A. COMBUSTION AIR		
1000 BTU/LB x 100 BTU/CF OF AIR*	0.075 LB/CF OF AIR =	0.75 LB/LB BURNED
B. COMBUSTIBLES AND WATER VAPOR	FROM CHART ABOVE =	0.95 LB/LB BURNED
C. TOTAL FLUE PRODUCT MASS PER LB BURNED	=	1.70 LB/LB BURNED
SPECI	FJCATIONS	
PRIMARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.5	
SECONDARY BURNER FUEL CONSUMPTION (MMBTU/HR)	0.9	
ADDITIONAL SECONDARY AIR SUPPLIED (CFM)	200	
SEC. CHAMBER OPERATING TEMPERATURE (*F)	1800	
SECONDARY CHAMBER VOLUME (CU. FT)	104	
SEC. CHAMB. CROSS-SECTIONAL AREA (SQ. FT)	2.44	
FLAME PORT AREA (SQ. FT)	2.95	
MIXING BAFFLES AREA (SQ. FT)	1.36	
*AIR AT STANDARD CONDITIONS		
3. TOTAL FLUE_PRODUCTS		
A. MAXIMUM PRIMARY BURNER GAS USAGE		
500000 BTU/HR x	4.5E-05 LBS/BTU =	22.5 LBS/HR
B. COMBUSTION AIR FOR PRIMARY BURNER		
500000 BTU/HR x	1 x 0.075 LB/CF AIR =	375 LBS/HR
	Surner	373 20371111
C. MAXIMUM SECONDARY BURNER GAS USAGE		
900000 BTU/HR x	4.5E-05 LBS/BTU =	41 LBS/HOUR

D. COMBUST	ION AIR FOR SECON	DARY BURNER				
	00000 BTU/HR x		1 x Burner	0.075 LB/CF AIR	= 675	LBS/HOUR
,	100 Brojer Ain		burner			
E. PRODUCTS	S FROM TYPE O WA	STE (CONTAINER)	ı [*]			
7.33 LBS	/LB BURNED	x 10	LB/HR BURN RATE		= 73	LBS/HOUR
F. PRODUCTS	S FROM TYPE 4 WA	STE (TISSUE)				
1.70 LBS	/LB WASTE	x 190	LB/HR BURN RATE		= 323	LBS/HOUR
G. ADDITIONA	AL SECONDARY CHA	MMBER COMBUSTI	ON AIR (THROAT AIF	8)		
12000 CF/	HR* x	0.075	LB/CF AIR		= 900	LBS/HOUR
H. TOTAL FL	UE PRODUCTS				= 2409	LBS/HOUR
2. VELOCITY AND TIME	CALCULATIONS					
A. SCFM CAL	CULATION	(PRODUCTS	S ASSUMED TO HAVE I	DENSITY CLOSE TO AIR)		
. 2409 LB	S/HR x	13.35 STD. CU. 1 60 MIN/HR	FT/LB	-	= 536	SCFM
B. TOTAL PRO 2260 °RAN 530 °RAN		<i>❷</i> 536.1	<i>1800 °F</i> CFM		= 2286	ACFM
C. RETENTIO	V TIME				ишинини	
104 CU. 2286 ACF		60 SECONDS 1 MINUTE			= 2.73	SECONDS
D. VELOCITY	IN FLAME PORT					
2286 ACF 2.95 SQ.		1 MINUTE 60 SECONDS			= 12.9	FEET/SECOND
E. VELOCITY	AT MIXING BAFFLE	es ·	-			
2286 ACF 1.36 SQ.		1 MINUTE 60 SECONDS			= 28.0	FEET/SECOND
F. VELOCITY	IN SECONDARY CH	HAMBER				
2286 ACF		1 MINUTE		,	= 15.6	FEET/SECOND
2.44 SQ.	FT	60 SECONDS				

Source Test Report for

Particulate and Carbon Monoxide Emissions

EPA Methods 1-5 and 10

Report 3264-S

September 22, 2010

prepared for

Fred Hunter's Memorial Services, Inc. Emission Unit 02 - Hollywood Facility ID: 0112149

prepared by

Arlington Environmental Services, Inc.

Post Office Box 657 Okeechobee, Florida 34973 Telephone (863) 467-0555



1.0 Introduction

Fred Hunter's Memorial Services, Inc. Facility ID 0112149 located at 6301 Taft Street in Hollywood, Florida operates two human crematories at this location. On September 22, 2010, simultaneous tests for particulate and carbon monoxide emissions were conducted on EU02 West Unit.

The tests were performed in order to comply with the operating permit conditions set forth by Broward County Department of Planning and Environmental Protection, Air Quality Division, Chapter 27 Article IV, Air Quality, Section 27-179(c)(2).

During the testing period, Ray Koterba, of Fred Hunter's Memorial Services, Inc., maintained a log containing the emission control device and process data. This information is presented, along with the temperature charts, in Attachment C.

The results of this test verify compliance with the rules as set forth by Florida Department of Environmental Protection and Broward County Department of Planning, Air Quality Division.

5.0 Summary of Results Fred Hunter Crematory 0112149 Report 3264-S

	Run 1	Run 2	Run 3	Average per Run
Date	9/22/2010	9/22/2010	9/22/2010	
Start Time	8:20	10:53	12:20	
Stop Time	9:22	11:54	13:22	
Process Rate (LBS.)	140	29	93*	144
Particulate Emission Rate (gr./dscf @ 7% O2)	0.0338	0.0225	0.0591	0.038
Allowable Particulate Emission Rate (gr./dscf @7% O ₂)	0.080	0.080	0.080	0.080
Carbon Monoxide Emission Rate (ppm @7% O 2)	6.73	6.57	0.20	4.50
Allowable Carbon Monoxide Emission Rate (ppm @7% O ₂)	100	100	100	100

^{*} Please note the sampling for the second and third run was preformed on the same cremation.

6.0 Particulate Emission Results Fred Hunter Crematory 0112149 Report 3264-S

	Run 1	Run 2	Run 3
Stack Area (square feet)	2.07	2.07	2.07
Stack Pressure (inches Hg)	29.99	29.99	29.99
Meter Pressure (inches Hg)	30.12	30.11	30.08
Sample Volume (Std. Cu. Ft.)	44.807	40.598	34.779
Water Vapor (Cubic Feet)	5.80	7.69	4.18
Sample Moisture (percent)	11.47	15.92	10.73
Saturation Moisture (percent)	100.00	100.00	100.00
Molecular Weight (lbs/lb Mole wet)	28.15	27.73	28.15
Velocity (fpm)	1025	1079	894
Volumetric Flow Rate (acfm)	2125	2237	1855
Volumetric Flow Rate (scfm)	669	637	583
Concentration (gr/dscf)	0.0241	0.0155	0.0352
Concentration@7% O2 (gr/dscf)	0.0338	0.0225	0.0591
Mass Emission Rate (lbs./hr.)	0.14	0.08	0.18
Percent Isokinetic	109.05	103.80	97.03

7.0 Carbon Monoxide Emission Results Fred Hunter Crematory 0112149 Report 3264-S

	Run1	Run 2	Run 3	Average
Date	9/22/2010	9/22/2010	9/22/2010	
Start Time	8:20	10:53	12:20	
Stop Time	9:22	11:54	. 13:22	
Percent Oxygen	10.99	11.31	12.63	
Carbon Monoxide (PPM)	4.80	4.54	0.12	
Carbon Monoxide Emissions (PPM @ 7% O ₂)	6.73	6.57	0.20	4.50
Carbon Monoxide Allowable (PPM@ 7% O₂)	100	100	100	100

10.0 Summary of Field and Laboratory Data Fred Hunter Crematory 0112149 Report 3264-S

			
	Run 1	Run 2	Run 3
Date	9/22/2010	9/22/2010	9/22/2010
Start Time	8:20	10:53	12:20
Stop Time	9:22	11:54	13:22
CP	0.84	0.84	0.84
Υ	1.0030	1.0030	1.0030
^Ha (inches H2O)	1.7369	1.7369	1.7369
Diameter of Nozzle (inches)	0.6240	0.6240	0.6240
Stack Diameter or Equivlant (inches)	19.50	19.50	19.50
Static Pressure (inches H2O)	-0.09	-0.09	-0.09
Barometric Pressure (inches Hg)	30.00	30.00	30.00
Test Time (minutes)	60	60	60
Meter Volume (cubic feet)	45.830	42.059	36.290
Square Root ^P (inches H2O)	0.179	0.183	0.156
Orifice Pressure ^H (inches H2O)	1.677	1.484	1.063
Average Meter Temperature (Deg. F) .	85.2 .	91.9	95.3
Average Stack Temperature (Deg. F)	1028.0	1103.3	1041.5
Particulate Sample Weight (grms)	0.0700	0.0408	0.0793
Water Collected (grms)	123.1	163.0	88.7
Percent CO2	6.4	7.0	5.4
Percent O2	11.0	11.3	12.6
Molecular Weight (lbs/lb Mole)	29.47	29.57	29.37
Nozzle Area (square feet)	0.00212	0.00212	0.00212



March 5, 2013

Priority Mail Delivery Confirmation 9405 5112 0128 8827 1294 76

Florida Department Of Environmental Protection RECEIPTS PO Box 3070 Tallahassee FL 32315-3070

To Whom It May Concern;

0090115-004-AG

Enclosed is our Human Crematory Air General Permit Registration Package and check in the amount of \$100.00.

I have also enclosed a copy of our existing registration. This crematory unit will replace the crematory unit currently in place.

If the registration package is deficient in anyway, please let me know.

Sincerely,

Michael W. Ammen

